## ANTI $\Theta$ HPIAKA.

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## $M I T H R I D A \mathcal{T} I U M$

AND
THERIACA.

By W. HEBERDEN, M.D.


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## A N <br> E S S A Y <br> ON <br> $M I T H R I D A T I U M, \& c$.

MITHRIDATES, the famous King of Pontus, had a ftrange affectation of fuperior. fkill in the powers of Simples. His Courtiers, we may imagine, flattered him upon it, and he has accordingly been delivered down to us as a fecond Solomon. Whereas if we confider the little leifure, that he had for his own enquiries into this part of nature; or the little helps, that he could have from the people about him; we muft. conclude that his knowledge was very inconfiderable. However, Pompey feems to have been poffeffed with the vulgar opinion, and, after he had conquered this King; took uncommon care to fecure his writings, in hopes of fome mighty: treafures of natural knowledge. He was foon convinced of what he might eafily have forefeen, and is reprefented as laughing at the difappointment of his own credulity, when, inftead of thofe

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great arcana, he only found one or two trịling receipts. ${ }^{2}$

There were probably fome artful people at this time, who were not difpofed to part fo eafily with the great expectations that had been raifed, nor to lofe this fair opportunity of enriching themfelves by a plaufible impofture: which has fince, been feveral times repeated and is frequently practiced amongft us at this day. For foon after, there was publifhed in Rome a moft pompous medicine with the name of Antidotum Mitbrida tium, which was pretended to have been found among his papers : though Plutarch ${ }^{\text {b }}$ who gives a minute detail of them (mentioning the Love-letters and feveral interpretations of Dreams) fays not one word of this famous medicine; which one can hardly think that he would have omitted, if he had found the tradition fupported by any proper teftimonies. The authority of 2. Serenus Samonicus is more pofitive, who fays that, notwithftanding the many receipts of $M i_{-}$ tbridatium that were handed about, the true medicine found in the cabinet of Mitbridates, was only that trivial one confifting of twenty leaves of rue, one grain of falt, two nuts, and two dried figs. ${ }^{c}$ So that there is fome reafon to furpect

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that Mitbridates was as much a ftranger to his own antidote, as feveral eminent Phyficians have fince been to the medicines that are daily adver? tifed under their names.
The Publifhers were not content with fathering this compofition upon fo great a name, but were likewife very extravagant in their commendations of it's virtues: The principal of which was made to confift in it's being a moft powerful prefervative from all kinds of venom. Whoever took a proper quantity in a morning, was infured from being poifoned during that whole day. ${ }^{2}$ This was confirmed by the example ${ }^{b}$ of it's fuppofed Inventor; who was farther faid, by ufing it in this manner, to have been at laft fo fortified againft all baneful Simples, that none would have any effect, when he wanted their affiftance to difpatch himfelf. ${ }^{\text {c }}$
By thefe arts it gained fo great a reputation, that fome of the Roman Emperors prepared it for themfelves with their own hands; feveral Phyficians among the Antients employed their Atudies upon it in order to render it more perfect; and it has been the fubject of many volumes, as well as the occafion of many unaccountable medicines 'made in emulation of it, among the

Galen de Antid. L. I.
${ }^{5}$ Celfus. L. 5. c. 23.
© Celfus et Appiatr.

Moderns. In particular, Andromacbus, who was phyfician to Nero, made confiderable alterations, in it ; among other things leaving out the Scink, adding Vipers, and increafing the proportion of Opium. He likewife changed the name of the Mitbridatium thus reformed to $\Gamma a \lambda^{\prime} n, m$, but in Trajan's time it obtained that of Thbriaca, either from the Vipers in it, or from it's good effects in curing the bites of venomous beafts; ${ }^{2}$ and by this name it is known and ufed at this day. But, notwithftanding this happy improvement by Andromachus, the original Mitbridatium has all along been continued as well as this reformation of it, and is ftill prepared by our Apothecaries according to a receipt of Damocrates in Greek Iambics, which has been preferved by Galen.

Now whether Mitbridates was or was not the author of this celebrated compofition, it was manifertly founded in error, fince it was chiefly intended as a counterpoifon: for nothing can be more falfe than the notions which have generally prevailed about the force and number of Poifons, and confequently of Antidotes.

In the ruder ages of the world, before experience had furnifhed mankind with any confiderable knowledge of nature, they feem to have been under perpetual alarms from an apprehenfion of poifons: They had probably feen the ill effect of fome

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few fubftances on the human body; and, like people in the dark, immediately made their dangers more and greater than they were; hence came that great number of Antidotes, which we meet with in the writings of the old Phyficians, whofe chief ufe was againft poifons. ${ }^{\text {a }}$ What ignorance or an immoderate fondnefs for life had thus begun, was carried to a much greater height by that ftrong paffion which the Vulgar have ever fhewn for prodigies and miraculous ftories. This was a fufficient warrant for Poets and other dealers in fiction to make a plentiful ufe of poifons upon all occafions; by which the original error has been much confirmed and improved. Not to mention any thing of the fufpicions which have attended Mothers-in-law, immediate Succeffors and other perfons interefted in the deaths of fuch as were taken off with any unufual fymptoms. Politicians feem likewife to have given authority. to thefe groundlefs fuppofitions, by laying the the deaths of many, whom they difpatched, upon poifons which the parties themfelves, as was given out, always carried about with them and had fecretly taken; by this contrivance the matter was hufhed up and all the odium of the murder avoided. The death of Demofthenes was, I think, of this fort; who was probably killed by fome trufty Aflaffin that Antipater's party fent into

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the temple to him, but it was too unpopular an action among the Athenians to be openly avowed. This, though not hitherto fufpected that I know of, appears not unlikely from the variety of accounts about his poifoning himfelf, and becaufe there was no poifon then known that could effect it according to any of thefe accounts. The fame perhaps may be faid of Hannibal and of feveral others. By all thefe means the number and fame of reputed poifons has been perpetually increafing; and Antidotes have increafed in proportion; for if a perfon did not dye who had taken an ineffectual poifon, it was of courfe attributed to the virtue of fome infignificant Antidote. After all thefe rumours of poifons and tragical relations of their effects in all hiftories, it is furprizing to find that the Antients knew of none except the Cicuta, Aconitum, and thofe of venomous beafts; ${ }^{2}$ and knew of no antidote whatever to there poifons. The many intrigues mentioned in antient hifory to have been carried on by means of others and far more fubtil ones, efpecially in the Perfian court, will at once come into my learned Reader's mind in prejudice of my affertion. To obviate which I only defire him to confider that all the old Naturalifs and Phyficians, though fome of them profeffedly treat of poifons, appear to have known no real ones but thofe abovementioned:

[^3]their catalogue is indeed much larger by having in it, Quickfilver, Orpiment, Bull's Blood, Diamonds with many other innocent things : And is it poffible that Women and Eunuchs Thut up in an eaftern palace fhould have a greater infight into the powers of nature, than thofe Philofophers who fpent their whole lives and travelled the known world over in queft of natural knowledge? Indeed the common ftories have all the marks of forgery and fallhood; in particular, it is pleafant to obferve how thefe fantoms have fled before the approach of light and learning. The firft account of fubtil poifons that might be concealed under the ftone of a feal or ring began in Greece; and Theopbrafus mentions a fort of them that might be proportioned fo as to exert their effects after any given time. ${ }^{\text {a }}$ When this ftory could no longer maintain its ground in Europe, it took fanctuary in Africa, for in $A$. Gellius's time ${ }^{\text {b }}$ fuch an one was reported to have been given there to Regulus, before they permitted his going to Rome, that, whatever happened, they might be fure of deftroying him. From Africa it fled into Afia among the Turks, who, as Mattbiolus ${ }^{\text {c }}$ fufpected, were in poffeffion of thefe fatal fecrets. It has been driven from the Turks into the remotert

[^4]Eaft-Indies, ${ }^{\text {d }}$ and upon our coming nearer thele countries by an eftablifhed commerce, this ignis fatuus retreated into the Weft-Indies, the firft accounts ${ }^{e}$ of which give us the old itory with all the pretended airs of truth and novelty, as if it had not been long before exploded out of every other part of the World. I would not be underftood to deny the poffibility of poifoning by fuch very fmall quantities, by the vapors arifing from perfumed gloves and letters, or that a poifon may lye concealed in the blood for a confiderable time before it exerts itfelf. It is plain that there are fuch things in nature, from the terrible effects of that very little liquor initilled by the bite of a viper; from the vapors of charcoal; and the poifon of a mad-dog lurking, as fome fay, for twenty years: however the gout and leprofy and madnefs will certainly lye in the blood unactive for a whole generation. But I think I may venture to affert, there never was any thing yet difcovered that we can apply with fuch effects. Now if this is a true account of the flate of poifons among the Antients, what are we to think of their Antidotes? Would it not be as ftrange to make ufe of them, as of the charms and amulets which are delivered down to us as prefervatives from

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witchcraft, an evil eye, or the power of any malicious Demons?

What has here been faid may be objected to every fingle alexipharmac drug: but much more may be faid againft them when united together as in the Mitbridatium; which has by many been called a piece of mere jumble and chancework without any footfteps of order, proportion or defign, without any regard to the known virtues of Simples or to any rules of artful compofition. I forbear to mention the unreafonable number of ingredients, their contradictory effects even according to the Antients themfelves, the inconfiderable portion of many of them in the quantity of a dofe, with feveral other particulars of the fame kind that have been fo often objected to it. The moft zealous patron that ever defended it will hardly affert that it's Inventor had fuch an infight into the powers of the Materia medica, as to fee any reafon a priori for the number and proportions that he has ufed: Experience alone can be called in to vouch for it's character, and no better voucher can be defired; but experience is clearly againft it ; this once all-powerful medicine that refifted every poifon and malignant difeafe, that procured long life, quicknefs of fenfes, ftability of health, that not only cured prefent but prevented future difeafes, (all which and much
more is affirmed of the reformed Mithridate or Theriaca by Galen ${ }^{2}$ ) is at prefent fcarce ever made ufe of for any of thefe purpofes; but deftitute of all it's celebrated virtues is forced to take refuge in that of a Diaphoretic, which is commonly the virtue of a medicine that has none. And there cannot furely be a ftronger proof of any medicine's infignificancy, than it's lofing ground fo remarkably after a tryal of near two thoufand years with a conftant prepoffeffion in it's favour. We have no particular accounts of any fervice that it ever did; but we are told that the conftant ufe of it hurt that excellent Emperor Antoninus by throwing him into a lethargic diforder : ${ }^{\text {b }}$ and it did Mitbridates no good, fuppofing that he ever knew and ufed it ; for his not being able to difpatch himfelf was probably lefs owing to the ftrength of his antidote than to the weaknefs of his poifon. In particular it's antidote virtue is utterly loft; we know of many more poifons than the Antients, yet there is not one which the Mithridate will at all counteract any farther than plain Opium will do it: Whoever was to depend upon it would infallibly meet with the fate of that unfortunate Quack mentioned by $W_{e p f e r}{ }^{\text {c }}$ who offered to fale a medicine made

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\text { In Libb. citatis. } \quad \text { ibid. }
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- De Cicuta Aquatica p. 322.
upon the plan of the old Antidotes, that was to fecure people from all poifons: he was rafh enough to make the experiment upon himfelf by taking Arfenic, and foon died, notwithftanding his Antidote, in a miferable manner. But if we are forced to give up the original alexipharmac virtue, there is a ftrong prefumption againft it's being good for any thing elfe; for if medicines fo elaborately contrived will not anfwer their firft purpofe, it is a great chance if they can be applied to any other for which they were not intended, without having great defects and fuperfluities in this new application.

But let us even fuppofe that undefigning chance did hit upon a mixture, for which experience has found out ufes in as full a manner as the Antients ever pretended; yet what foundation will this be to us for expecting the like advantages? What if Fortune has for once out of a medley of inconfiftent drugs produced an ufeful medicine, can we therefore hope that any other fortuitous concourfe of them will have the fame effect? But this we muft hope, if we have any confidence in what is at prefent called Mitbridatium or Theriaca. For I believe that it has fcarce ever continued the fame for a hundred years together. Celfus is the firft that defcribes this medicine, and in him it confifts of thirty eight Simples. Before

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\text { B2 } \quad \text { Nero's }
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Nero's time, five of thefe were fruck out, and twenty others added. Soon after, Andromachus leaving out fix and adding twenty-eight ingredients, increafed the fum total to feventy-five. Aëtius in the $\mathrm{V}^{\text {th }}$ Century and Myrepfus in the XII ${ }^{\text {th }}$ give us very different defcriptions of Mitbridatium: and fince that time it has been in a fate of perpetual fluctuation; the alterations, that it has undergone by accident, being as great as thofe that have been defignedly made in it. For of the Simples that antiently compofed it, feveral are utterly unknown, ${ }^{a}$ others only guefsed at with great uncertainty, and fome very erroneoufly, as might eatily be fhewn, and were fo even in Pliny's ${ }^{b}$ time. From the different fubftitutes for the unknown parts, and the various gueffes at the uncertain parts, with the difficulty of getting many of the ingredients, being never ufed but in this compofition, it happens that not only all the Moderns differ from the Antients, but almoft all our fhops differ from one another in their manner of preparing it. Many are the difputes, which have been occafioned among Phyficians, about it's true drugs. There was one carried fo high, about a hundred years ago, con-

[^6]cerning Balfam of Gilead, that at laft the Difputants appealed to the Pope ; but the Pope, not chufing to affert his infallibility in matters of Phyfic, wifely referred the caufe to Petrus Caftellus, a learned Phyfician of Rome, who has publifhed an account of this notable controverfy. Now in cafes where we can reafon upon the effects of a medicine, many alterations may be made and yet the virtues continue the fame; but as here we muft wholly depend upon experience, how can any one be fure that thefe alterations have not utterly fpoiled it, fince no one knows where it's virtues, lye ? and 'Galen has told us that the badnefs of any one ingredient will often fpoil the whole compofition. Befides, which of all the antient defcriptions are we to take? for the feveral receipts ${ }^{d}$ under the names of the elder and younger Andromachus, Damocrates, Crito, Magnus, Xenocrates and Demetrius all vary from one another. This objection will farther be ftrengthened by confidering that even in Galen's time there were great faults in the copies that were handed about, a and if many new ones have not been fince added, they muft have had better fortune than any other kind of writing;

- De Theriaca. ad Pifon. c. I2. If it be Galen's.
${ }^{\text {d }}$ Galen in Libb. citat.
- Galen Lib. I. de Antidot.


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but the firf elements of criticifm will teach us that they are of all the moft corrupt, as they confilt of arbitrary marks for quantities and unconnected names of Simples, where the context is of no fervice to direct the copyifts : and that this has happened in fact to thefe medicines appears from the various readings belonging to their defcriptions in Celfus, Galen, Aëtius and Myrepfus; and likewife from all thefe authors differing from one another in their directions how they are to be prepared.

If our objections ftopped here, and thefe grand antidotes were only good for nothing; it would hardly be worth while to cenfure or take any notice of them : but we may jufly fear that their ufe is attended with a good deal of danger. As many people bufy themfelves with the practice of Phyfic, who are unqualified to know what they are doing ; it may be advifable, for the fake of fuch as fall into their hands, to difcountenance a medicine, which, upon the tradition of it's fovereign virtues, or as a fudorific, is often applied at random, and, by means of the Opium, does much mifinief. But it's ufe may be of ill confequence not only in the hands of the vulgar, but even of a fkillful Phyfician; for Opium or any powerful drug, mixed up into an electuary with fo many other things, is againft all rules of pharmacy;

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macy; the prefcriber lies too much at the mercy of the perfon who mixes the ingredients, whether what he gives for an ordinary dofe fhall not contain a dangerous or fatal quantity of opium : and indeed it is hardly to be expected, in fuch a multiplicity of ingredients, that the ufual dofe will contain a juft proportion of all of them, and of courfe the Phyfician will be greatly in the dark, whenever he prefcribes it. There are not wanting inftances of fuch ill effects from the Mitbridatium and Theriaca, as muft have been owing to the patient's having more than his fhare of Opium. It is very probable that this was long ago experienced, which gave occafion to the commendations beftowed upon Old Theriaca; for Galen tells us ${ }^{2}$ that the ufe of keeping it for fome time is to mitigate the ftrength of the Opium : (which, however, keeping will not do to any purpofe ${ }^{\text {b }}$ ) another reafon has been fince found out, namely, that age refolves the feveral parts into one uniform mafs: upon thefe two accounts the practice of preferring fuch as has been laid up till it is thirty or forty years old, prevails to this day. ${ }^{\text {c }}$ This furely lies extremely open to cenfure ; for would it not have been better to have put lefs

## 2 L. I. de Antid.

- Edinb. Effays. Vol. 5. art. 12.
- Vid. Aq. Theriacal. Pharm. Lond.

Opium

Opium in it at firft ? Did it enter there, only that it might go out again? Befides, together with the flrength of the Opium, the virtues of the Aromatics will exhale and leave the mafs, if not quite fpiritlefs and unactive, at leaft much altered from what it was at firft.

Lafly, this farrago is very apt to ferment; which fermentation, while it lafts, is faid to exalt ${ }^{d}$ the power of the Opium to a degree of ftrength three or four times as great as it had before; and a common dofe may by thefe means be fo much ftronger than was intended; which is a danger not commonly thought of nor eafily avoided, and cannot be balanced by any real virtues belonging to thefe medicines.

Why then fhould we retain them any longer in our fhops? Can we not do every thing, that they can reafonably pretend to, in a much artfuller, fafer and more fimple manner? I think that they are now chiefly given as Opiates and Aromatics; which intentions would furely be much better anfwered by mixing two or three of our many fpices, in which we fo far excell the Antients, with as much Opium added to every dofe as was thought proper; without loading a fick man's ftomach with fo many other ufelefs things, that muft accompany them, when

[^7]given in the Mitbridatium or Theriaca. I own it is hard to fay, that thefe are their chief virtues, or what their chief virtues are; for there are as many friendly and hoftile qualities blended together, as in that well-known cafe, where the Poet forbids us incerta bac ratione certa facere.

I might now proceed to fupport my objections by authorities, which perhaps would be the propereft method of attacking what is fupported only by authority. For I muft do that juftice to Phyficians as to own that there have not been wanting feveral in all ages who have born witnefs againft this complicated error, and that it's triumph has been conftantly attended with many juft cenfures and reproaches. However I fhall content myfelf with quoting only the opinion of Pliny who is almont as old as the Thberiaca, and that of a Writer of our own times ; fince if what has been faid is of any weight, it will make it an unneceffary tafk to collect all that has been difputed for and againft it by the intervening Writers. The latter of thefe Authors a afferts that Mitbridatium and fuch other medicines have done more mifchief in
= Theriaca, Mithridatium, Philonium et alia confufa magis, quam compofita remedia, plus fane damni, quam auxilii adferunt. Hinc ad jufta Dei judicia referendum videtur, quod falfæ de his remediis traditiones univerfo fere terrarum orbi impofuerint. Junck. Med. Pract. 587.
the world than good: The former declaims with great vehemence againft the injudicioufnefs, the oftentation and wantonnefs of this heap of Drugs. ${ }^{2}$ Both of them feem, oddly enough, to agree in referring the invention of it to the juft judgment of heaven; as if the delution was too ftrong and unaccountable to proceed from mere human artifice and contrivance. But notwithftanding what thefe and others have faid againft it, it ftill goes on to be prepared in the old manner, as near as may be, in all the great cities of Europe. It's power indeed and fame has of late been manifeftly declining; and we may hope that it's reign will not laft much longer. Enough furely has been given to Antiquity: let not leigth of time, which has ever been the fatal enemy of falfhood and impofture, be made in this inftance to fupport and protect them. Perhaps the glory of it's firt expulfion from a public Difpenfatory was referved to thefe times and

[^8]to the Englifh Nation; in which all parts of Philofophy have been fo much affifted in afferting their freedom from antient fable and fuperftition; and whofe College of Phyficians, in particular, hath defervedly had the firft reputation in their profeffion. Among the many eminent fervices, which the authority of this learned and judicious Body hath done to the practice of Phyfic, it might not be the leaft that it had driven out this medley of difcordant Simples; which, perhaps, has no better title to the name of Mitbridates, than as it fo well refembles the numerous, undifciplined forces of a barbarous King, made up of a diffonant crowd collected from different countries, mighty in appearance, but in reality, an ineffective multitude, that only hinder one another.

THE END.



[^0]:    2 Q. Serenus Samonicus de Venep. prohib.

    - In Vit. Pomp.

    De Venen. Prohib.

[^1]:    ${ }_{3}$ Galen L. I. de Antid. et de Theriac. ad Pifon.

[^2]:    - Celfus L. 5. c. 23.

[^3]:    ${ }^{2}$ Hoffman. Syft. Med. Rat. T.II. p. 183.

[^4]:    ${ }^{2}$ Hiff. Plant. L. 9. c. i6.
    ${ }^{\text {b }}$ A. Gell. L.6. c. 4.
    \& In Diofcor. p. 972.

[^5]:    d Purchas, Pilgr. L. Io. c. 8.

    - G. Pifo Hift. Nat. Brafil. L. 3.

[^6]:    ${ }^{2}$ Sẹe Manard. Epif. Lib.6. ep. 3. et Jo. Bapt. Theodos: Epift. II.
    ${ }^{b}$ Nat. Hift. L. 2g, c. I.

[^7]:    ${ }^{d}$ Juncker, Chem. Tab. 72.

[^8]:    a Theriaca vocatur excogitata compofitio luxurix ; fit ex rebus externis, cum tot remedia dederit Natura, quæ fingula fufficerent. Mithridatium Antidotum ex rebus liv componitur, interim nullo pondere æquali, et quarundam rerum fexagefima denarii unius imperata. Quo Deorum perfidiam iftam [al. per fidem ifta] monltrante? Hominum enim fubtilitas tanta effe non potuit. Oftentatio artis et portentofa fcientix venditatio manifefta eft. Plin. N.H. L. 2g. c. i.

